Rogia PUT/TID 25 JAN 2005

PATENT COOPERATION TREATY

INTERNATIONAL PRELIMINARY EXAMINING

To:

YOU ME Patent & Law Firm

Teheran Bldg., 825-33 Yoksam-dong, Kangnam-ku, Seoul 135-080, Republic of KOREA

NOTIFICATION OF TRANSMITT INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

(PCT Rule 71.1)

Date of mailing

(day/month/year) 30 JUNE 2004 (30.06.2004)

Applicant's or agent's file reference

OPP021224KR

IMPORTANT NOTIFICATION

International application No.

International filing date (day/month/year)

Priority date (day/months/year)

PCT/KR2003/000512

17 MARCH 2003 (17.03.2003)

26 JULY 2002 (26.07.2002)

Applicant

SAMSUNG ELECTRONICS CO., LTD. et al

- The applicant is hereby notified that International Preliminary Examining Authority transmits here with the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report(but not of any annexes) and will transmit such translation to those Offices.

The applicant must enter the national phase before each elected office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details in the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/KR

Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

COMMISSIONER

Telephone No. 82-42-481-5198



PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Artcle 36 and Rule 70)

Applicant's or agent's file reference OPP021224KR	FOR FURTHER ACTION						
International application No.	International filing date(day/mo	nth/year)	Priority date (day/month/y	rear)			
PCT/KR2003/000512	17 MARCH 2003 (17.03.2003) 26 JULY 2002 (2		26 JULY 2002 (26.07.20	02)			
International Patent Classification (IPC) or national classification and IPC							
IPC7 G02F 1/133							
Applicant							
SAMSUNG ELECTRONICS CO., LTD. et al							
 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 							
2. This REPORT consists of a total	of3 sheets, include	ling this cover she	et.				
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).							
These annexes consist of a total	ofsheets.						
3. This report contains indications r	elating to the following items:						
I X Basis of the report							
II Priority							
' ⊒	of opinion with regard to novelty	inventive step and	d industrial applicability				
IV Lack of unity of inv	-	•					
Neasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
VI Certain documents	cited						
VII Certain defects in th	e international application						
VIII Certain observations on the international application							
	a						
Date of submission of the demand	Date	of completion of the	nis report				
25 FEBRUARY 2004 (25.02.2004)		28 JUNE 2004 (28.06.2004)					
Name and mailing address of the IPEA/	KR Autho	orized officer					
Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea		KOH, Jong Wook		们高用			
Facsimile No. 82-42-472-7140	Telep	hone No. 82-42-	42-481-5989				



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International aplication No.

PCT/KR2003/000512

I.	Basis	of the report	·		
1.	With	regard to the elements of the international application:*			
	$\overline{\mathbf{x}}$	the international application as originally filed	•		
		the description:			
		pagespages	, as originally filed , filed with the demand		
		pages pages pages , filed with the letter of	,		
	\Box	the claims:			
	ט	pages, as amended (together with an	, as originally filed		
		pages	, filed with the demand		
		pages, filed with the letter of	- 		
		the drawings:			
		pagespages	_ , as originally filed , filed with the demand		
		pages, filed with the letter of			
		the sequence listing part of the description:			
		pagespages	, as originally filed , filed with the demand		
		pages, filed with the letter of	, mos with the definition		
2.	the i	Vith regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language which is the language of a translation furnished for the purposes of international search (under Rule 23.1(b)). The language of publication of the international application (under Rule 48.3(b)). The language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).			
3.		h regard to any nucleotide and/or amino acid sequence disclosed in the international appliminary examination was carried out on the basis of the sequence listing: contained inthe international application in written form.	ication, the international		
		filed together with the international application in computer readable form.			
	\sqcup	furnished subsequently to this Authority in written form.			
	\sqcup	furnished subsequently to this Authority in computer readable form The statement that the subsequently furnished written sequence listing does not go be	read the disclosure in the		
		international applicationas as filed has been furinshed. The statement that the information recorded in computer readable form is identical to the vibeen furnished.			
4.		The amendments have resulted in the cancellation of:			
		the description, pages			
		the claims, Nos.			
5.		the drawings, sheet			
		This report has been established as if (some of) the amendments had not been made, since go beyond the disclosure as filed, as indicated in the Supplemental Box(Rule 70.2(c)).**	they have been considered to		
•	in thi	scement sheets which have been furnished to the receiving Office in response to an invitation ur s opinion as "originally filed." and are not annexed to this report since they do not contain 0.17).			
**	Any r	eplacement sheet containing such amendments must be referred to under item I and annexed to	o this report.		

INTERNATIONAL PRELIMINARY EXAMINATION

International aplication No.
PCT/KR2003/000512

٧.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

1.	Statement		•	
	Novelty (N)	Claims	1-6	YES
		Claims		NO
	Inventive step (IS)	Claims	1-6	
	• • •	Claims		<u>N</u> 0
	Industrial applicability (IA)	Claims	1-6	yes
		Claims		NO

2. Citations and explanations (Rule 70.7)

Reference is made to the following documents:

D1: JP 06-348234 A D2: JP 11-143435 A

The present invention relates to a liquid crystal display for improving the uniformity of image quality of pixels in the rows having reversed polarity.

D1 discloses that erasing pulses of monopolarity are impressed to reset all the pixels on the selected scanning electrodes to the dark in the erasing period. The difference to the claimed invention is that in D1, all the pixels on the selected scanning electrodes are changed to the bright or the dark according to the display data, to display video signals in the writing period.

In Claims 1 of the present invention, the data driver biases the data lines to a voltage with a predetermined level before outputting the gray voltages to the pixels in each scanned row. However, the difference is that in the claimed invention, the data driver reverses the polarity of the gray voltages to be applied to the data lines of the liquid crystal panel by a predetermined number of rows.

Therefore, the invention, as in Claims 1-6, is considered to be novel and to involve an inventive step.

The invention, as in Claims 1-6, is also considered to be industrially applicable.